

### Product type designation

Product description

### PCF Standard Cable GP

PCF fiber-optic cable with plastic cladding, preferred length, preassembled

SIMATIC NET PCF STANDARD CABLE, PREASSEMBLED WITH 2X2 BFOC CONNECTORS, INSERTION GUIDE, LENGTH 150 M



Suitability for use	Cable for permanent installation indoors and outdoors, UL approval
Version of the assembled FO cable	Assembled with four BFOC connectors
Cable designation	AT-V(ZN)YY 2K 200/230
Cable length	150 m

### Optical data

Damping ratio per length	
<ul style="list-style-type: none"> <li>• at 650 nm / maximum</li> <li>• at 660 nm / maximum</li> </ul>	10 dB/km
Bandwidth length product	
<ul style="list-style-type: none"> <li>• at 650 nm</li> </ul>	17 GHz·m

### Mechanical data

Number of fibers / per FOC core	1
Number of FO cores / per FOC cable	2
Version of the FO conductor fiber	Step index fiber 200/230 µm
Outer diameter	
<ul style="list-style-type: none"> <li>• of the optical fibers</li> <li>• of the optical fiber sheath</li> <li>• of the FOC core sheath</li> </ul>	200 µm 230 µm 2.2 mm
Symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm
Outer diameter / of the cable	7.2 mm

Symmetrical deviation / of the outer diameter of the line	0.5 mm
Material	
<ul style="list-style-type: none"> <li>• of the fiber-optic cable core</li> <li>• of the optical fiber sheath</li> <li>• of the FOC core sheath</li> <li>• of the fiber-optic cable sheath</li> <li>• of the strain relief</li> </ul>	Quartz glass Special polymer PVC PVC Aramid fibers
Color	
<ul style="list-style-type: none"> <li>• of the FOC core sheath</li> <li>• of cable sheath</li> </ul>	Orange/black green
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	70 mm 105 mm
Tensile load / during operation / maximum	100 N
Short-term shear force per length	500 N/cm
Continuous lateral force per length	300 N/cm
Weight per length	45 kg/km

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul>	-25 ... +75 °C -25 ... +75 °C -25 ... +75 °C -5 ... +50 °C
Burning behavior	Flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
Chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>	Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

### Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	No Yes
Product component / Rodent protection	No
Cable length	
<ul style="list-style-type: none"> <li>• for PCF FOC / for Industrial Ethernet / maximum</li> <li>• for PCF FOC / with PROFIBUS / maximum</li> </ul>	100 m 400 m

### Standards, specifications, approvals

Certificate of suitability

- RoHS conformity

UL approval: OFN (NEC Article 770, UL 1651) / CSA approval:  
OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988)  
Yes

## Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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